

Tuesday, September 12, 2017 1:35:16 PM

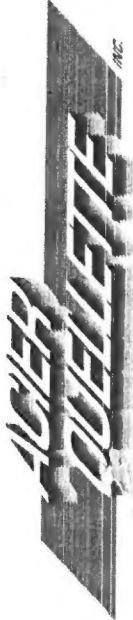
All amounts are calculated in domestic currency.

All Vendors	PO ID PO37671	Receipt Dates from 9/12/2017 to 9/12/2017	All Line Item Types
All Item ID/GL/WOs	All Rec	Employees	All C

Item ID/GL/WOS	All Rec. Employees	All Currencies
...

Grouped by Vendor ID

[illegible]



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CLI0001056

Date

2017/09/06

Delivery date

2017/09/21 12

Your order N°

PO37671

Processed by

Frederic Leboeuf

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

1

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Product Description

1 SHEET SS 18G SS304-2B (4 X 8)
FESS-18G483042B 3425

2 X 4' X 8'

HEAT:

Weight

134.40

Qty

64.00

U/M

PI2_\$CLB

PCS NB

CMD

EXP

B/D

IN

I

S

C

Internal Use Only

OUT

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 134.40

NIR : R-109516-6

Prepared By :

Verified By :

Delivered By :

Time

Customer's Signature

Date

Total (\$CAD)



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CLI0001056

Date

2017/09/06

Delivery date

2017/09/08

Your order N°

PO37671

Processed by

Frederic Leboeuf

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

1

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Alt : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
1 ROUND SS 3/4 303 RANDOM RSS-34303-V 5761 1 X 12' R/L HEAT: W4B3	18.02	12.00	PI_\$CLB						
2 ROUND SS 3/8 304 (12R) RSS-38-12 5763 1 X 12' R/L HEAT: CH-3840	4.51	12.00	PI_\$CLB						
3 SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B 3425 2 X 4' X 8' HEAT: 0L4V DAS 5 9-89	134.40	64.00	PI2_\$CLB						

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N 

CLI0001056

Date

2017/09/06

Delivery date

2017/09/08

Your order N 

PO37671

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Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

2

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
4 SHEET SS 20G SS304-2B (4 X 8) FESS-20G483042B 3430 2 X 4' X 8' HEAT: 160629D02	100.48	64.00	PI2_\$CLB						
5 ROUND CR 5/8 1018 (20R) RCR-58-20 5350 1 x 20' r/l HEAT: 139624	20.80	20.00	PI_\$CLB						
6 ROUND CR 1/2 1018 (20R) RCR-12-20 5266 1 x 20' r/l	13.36	20.00	PI_\$CLB						

NIR : R-109516-6

Next Page...



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Saliaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056

Date 2017/09/06

Delivery date 2017/09/08

Your order N° PO37671

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Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 3

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Alt : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
HEAT: 916205 7 FLAT CR 1/4 X 1 1/2 1018 (12R) FCR-14112-12 2731 1 x 12' r/l	15.30	12.00	PL_\$CLB						
HEAT: W26482 8 ROUND 4140 HEAT TREAT 3/4 (20R) R4140-34H-20 4948	4.51	3.00	PL_\$CLB						
HEAT: M52573 COUPE A LA SCIE SCIE 1 1 X 3'		1.00	UN						

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

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ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056

Date 2017/09/06

Delivery date 2017/09/08

Your order N° PO37671

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Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 4

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C OUT
9 ROUND 4140 HEAT TREAT 2 RANDOM R4140-2H-V 4937 HEAT: M56776 COUPE A LA SCIE SCIE 1 1 X 3"	32.04	3.00	PL_\$CLB						
10 FLAT ALU 3/8 X 1 6061-T6 (20) FAL-381-20 2610 1 X 20" HEAT: 364191	9.00	20.00	PL_\$CLB						

NIR : R-109516-6

Next Page...



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Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLJ0001056

Date 2017/09/06

Delivery date 2017/09/08

Your order N° PO37671

Processed by Frederic Leboeuf

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 5

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C OUT
11 FLAT ALU 1/2 X 1 1/2 6061-T6 (20) FAL-12112-20 2465 1 X 20' HEAT: 66789	18.00	20.00	PL_\$CLB						
12 FLAT ALU 1 X 5 6061-T6 (12) FAL-15-12 2533 1 X 12' HEAT: 201708529	70.49	12.00	PL_\$CLB						
13 FLAT ALU 1 1/4 X 3 6061-T6 (12) FAL-1143-12 2457 1 X 12'	52.87	12.00	PL_\$CLB						

NIR : R-109516-6

Next Page...



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935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056

Date 2017/09/06

Delivery date 2017/09/08

Your order N° PO37671

Processed by Frederic Leboeuf

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 6

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB		Internal Use Only			
				CMD	EXP	B/O	IN	I	S C OUT
HEAT: ES04036 14 ROUND ALU 5 6061-T6 (12) RAL-5-12 5164	69.12	3.00	PI_5CLB						
HEAT: Z00020290 COUPE A LA SCIE SCIE 1 1 X 3'		1.00	UN						
15 ROUND ALU 2 1/4 6061-T6 (20) RAL-214-20 5144 HEAT: 68252	9.34	2.00	PI_5CLB						

NIR : R-109516-6

Next Page...



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Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056

Date 2017/09/06

Delivery date 2017/09/08

Your order N° PO37671

Processed by Frederic Leboeuf

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 7

Shipped to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
COUPE A LA SCIE SCIE 1			1.00 UN						
16 ROUND SS 1 1/2 303 RANDOM NS RSS-112303-V 8859 1 x 12' R/L AC9030 - TH - 2017/09/07 HEAT: 3338	72.11	12.00	PI \$CLB						
17 FLAT CR 2 1/2 X 6 1018 RANDOM NS FCR-2126-V 8860 1 X 3' AC9031 - GR - 2017/09/07 HEAT: 207H175	153.00	3.00	PI						

NIR : R-109516-6

Next Page...



CO00049626

DELIVERY - CLIENT

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLJ0001056

Date 2017/09/06

Delivery date	2017/09/08
---------------	------------

Your order N° PO37671

Processed by
Frederic Leboeuf

Salesman

Carrier
OUELLETTE VALLEYFIELD

Credit Terme
Net 30 Days

Page 8

Billed to	Shipped to
<p> <input type="checkbox"/> Individual Name _____ Address _____ City _____ State _____ Zip _____ Country _____ </p>	<p> <input type="checkbox"/> Individual Name _____ Address _____ City _____ State _____ Zip _____ Country _____ </p>
<p> <input type="checkbox"/> Company Name _____ Address _____ City _____ State _____ Zip _____ Country _____ </p>	<p> <input type="checkbox"/> Company Name _____ Address _____ City _____ State _____ Zip _____ Country _____ </p>

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction **F-M**

[illegible]

Conditions :

Total Weight (Lbs): 797.35

All sold and delivered materials remain the property of "Acer Quelite Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Quelite Inc" is the same as offered and honored by the manufacturer and its warranty is transferred by "Acer Quelite Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with authorization and are subject to a 25% restocking charge.

Prepared By :

Verified By :

Delivered By :

Time

Total (\$CAD)

DATE _____

Customer's Signature

Date _____



740 Imperial Road North

Certificate: 107119 5

Customer: 007035 510

METALLURGICAL TEST REPORT

North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

Date: 10/22/2015 Page: 1

Steel: 303

Finish: CD

Corrosion:

Your Order: 770967

NAS Order: FN 0056401 02

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
ASTM A582/12 FN 10204 3.1, ASTM A484/11
AMS 5640U TYPE 1, QQS-764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAF 252.225-7009 EU DIRECTIVE
2011/65/EU-ROHS. EAF-AOD-CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BH4444 0		.7500		1.151	144.00	2	1	71469845

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CO %	CR %	CU %	HN %	MO %	N %	NI %	P %
W483	US	.0473	.1185	17.2850	.3305	1.7960	.2720	.0532	8.3575	.0310
S %	SI %									
.3495	.4945									

MECHANICAL PROPERTIES

Product Id	1 d o i c f	HB	.2YS KSI	UTS KSI	RA %	Elong % 4D
BH4444 0	R L	222.0	82.69	102.54	34.29	23.26

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

ABHIJEET BHAVE - 10/22/2015

PO 6740



CHANDAN STEEL LIMITED
(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

HQ JURY: 10000 CERTIFICATE No. 63 200 021000

ADL OFFICE: 04, BUNGALOW, K. S. PANDAR NADE, MEDICAL GROUP, BOMBAY

Tel: 91-22-44290000 Fax: 91-22-44290000/34

Website : www.abnashah.com

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L/c No.:

L/c Date:

WFOOSH: Flat No. 35, G. E. D. C., Daburpore

Doc Volume, Count - 894 171

Tel: 91-844-288 9999 Fax: 91-844 288 9072

Email : export@chinaexport.net

PR24 QC 09A / 02 / 10.12.2012

MILL TEST / INSPECTION CERTIFICATE 3.1
ACCORDING TO EN 10204 : 2005

PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS						Test Certificate No. : EGP/00837 - 13/2016-2017		Date of Issue : 08.07.2016		P. O. No. : P004712		
						SC_No. & Date : 15-16/00924, Dt. 13.04.2016		Invoice No. & Date : EGP/00837/2016-17 Dt.08.07.2016				
						LENGTH		Net Wt.				
						Ordered 12" - 126"		Actual 12" - 126"		6458 LBS.		
Heat No.		Grade AISI/DIN		Size mm./inches		Tolerance		Process Route				
CH-9840		304/304L 1.4301/1.4307 UNS30400/30403		3/8" ✓		±9		Electric Melting, A.O.D. Refining, Continuous Casting				
CHEMICAL COMPOSITION (Weight %)												
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Co	N	
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-	
Max.	0.080	1.00	2.00	0.045	0.050	20.00	1.00	10.50	1.00	-	0.1000	
Results	0.019	0.42	1.71	0.080	0.020	18.21	0.52	8.05	0.41	0.10	0.0690	
MECHANICAL PROPERTIES												
Specified Values	Test Method :- EN ISO 6932-1					Hardness EN ISO 6506-1	Test Method :- Charpy 'V' Notch Impact					
	Proof Strength N/mm ² /MPa		Tensile Strength N/mm ² /MPa (Rm)		Elongation after Fracture A		Reduction of Area	Tested (mm) as per DIN EN ISO 148 - 1				
	0.2% (Rp0.2)		1% (Rp1.0)		%		%	Sample Size -				
	Results		Results		Results		Results	Test Temp. :- 20 °C (unless)				
	514	360	712		47	65	215-218	I	II	III	Avg.	
Remarks:												
1. Cold drawn & Centrefless Ground.												
2. Solution annealed at 1050 °C.												
3. PMI test done 100% & found Satisfactory.												
4. Material is free from radio-active contamination.												
5. Material is free from mercury contamination.												
6. Inter-Granular Corrosion Test as per ASTM A262 - 15 (Pr.B) satisfactory.												
7. No welding or weld repairs were performed on this material while in our possession.												
8. Micro structure reveals equiaxed grains of Austenite & free from carbide Precipitation.												
9. Grain size - No. 7-8 of ASTM as per E112-96.												
10. The material Conforms to ASTM A276-15, ASTM A182/A182M-15, ASME SA 182/SA 182M-15, ASTM A479/A479M-15, ASME SA479/SA-479M-15, ASTM A193/A193M-15 B8 - CL1, ASME SA193/SA193M-15 B8 - CL1, ASTM A320/A320M-11 B8 CL1, ASME SA320/SA 320M-10 B8 CL1, AMS-QQ-S-7658 COND A, AMS - 5639H, AMS - 5647H, EN 10088-3 : 2014 & DIN EN 10272-2008 Specification.												
11. Location of sample - Centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Round.												
12. Marking details - Company Logo, Size, Grade & Heat No.												
13. The material is manufactured /melt in Chandan Steel Mill and is of Indian Origin.												
BUNDLE NO.: 47 to 51												
COLOUR : RED												

It is hereby certified that the above models are true and correct in every detail and are meeting the requirements of specification & purchase order.

COLOUR : RED

B. S. RAUTELA
MANAGER - QUALITY ASSURANCE



#3425

FE-SS-18648300120

P0.3538 #3
474707

North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certification: 253625 2

Customer: 007035 021

Date: 1/10/2017 Page: 1

Steel: 304/304L

Finish: 2B

Corrosion: ASTM A262/15;180Bend-OK

Your Order: 788462

NAS Order: DS 0011167 01

PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED. UNS 30400/30403
ASTM A240/15B, A480/15, A666/15, SA480/15, SA666/15
MANUFACTURED IN MALAYSIA

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; ROHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001

Product Id	Supplier Id	Skid #	Thickness	Width	Weight	-----Length-----	Mark	Pieces	Commodity Code
110L4V	A00304 63A		.0450	48.0296	24.908	COIL	1	1	74261496

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

HEAT	Supplier#	CM	C %	CR %	MN %	N %	NI %	P %	S %	SI %
0L4V 192R	ES		.0200	18.2000	1.8200	.0800	8.0000	.0290	.0020	.3600

DAS
5
9-89

MECHANICAL PROPERTIES

Product Id	Supplier Id	1 d o i c r	UTG KSI	20C KSI	.2% YS KSI	% ELONG 1"-2"	% Hard RB	Tail Hard
110L4V	A00304 63A	FT	95.72	48.59	48.00	85.00	86.00	

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical
Dept. Ngr.

KRIS LARK

1/11/2017

YONGJIN

MILL TEST REPORT

DATE: 2016-7-31
Invoice No. SECAB26503TDS
CERTIFICATE NO.: PPCNQ6506TDS

MADE IN CHINA
PRODUCING MILL: YONGJIN
PO NUMBER: C16960

GOODS: STAINLESS STEEL COLD ROLLED COILS 2B FINISH, AS PER AISI 304 PRIME QUALITY.

SLITTING EDGE WITH PAPER INTERLEAVED.

TYPE: 304 SPEC: ASTM A240/480, ASME SA240/480

NO.	Surface	Heat No.	Coil No.	DIMENSIONS	Weight (MT)	Mechanical Properties				State
						T.S (N/mm ²)	Y.S (N/mm ²)	Elong %	Hardness	
✓ 1	2B	160612C11	YJJ16Z05996A	0.024 INCH X 48.00 INCH X COIL	9.648	671	270	58	159/161/162	P556015
✓ 2	2B	160625B01	YJJ16Z05945A	0.030 INCH X 48.00 INCH X COIL	9.241	690	279	56	167/167/168	P554953
✓ 3	2B	160629D02	YJJ16Z05961A	0.035 INCH X 48.00 INCH X COIL	7.010	690	280	55	167/168/169	P554953
✓ 4	2B	160629D02	YJJ16Z05961C	0.035 INCH X 48.00 INCH X COIL	7.084	690	280	55	167/168/169	P554954
✓ 5	2B	160629D02	YJJ16Z05961B	0.035 INCH X 48.00 INCH X COIL	6.915	690	280	55	167/168/169	P556016
TOTAL:					39.898					

NO.	CHEMICAL COMPOSITION %										
	C	Si	Mn	P	S	Cr	Ni	N	Mo	Ti	Cu
1	0.036	0.43	1.16	0.026	0.004	18.15	8.06	0.050	0.024	/	0.08
2	0.044	0.39	1.06	0.024	0.002	18.34	8.01	0.051	0.004	/	0.02
3	0.044	0.59	1.17	0.026	0.003	18.19	8.04	0.046	0.004	/	0.03
4	0.044	0.59	1.17	0.026	0.003	18.19	8.04	0.046	0.004	/	0.03
5	0.044	0.59	1.17	0.026	0.003	18.19	8.04	0.046	0.004	/	0.03

REMARKS: We hereby certify that the material described herein has been manufactured and tested with satisfactory results in accordance with the requirements of the material specification.

Quality Dept. *Peter*



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#5
TRA 1469 505
48493
38

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47704

ALBARAN 47704
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A108

ORDEN DE COMPRA Purchase Order	DESCRIPCIÓN Description	KGS.	TOLERANCIA TOLERANCE	OF	MEDIDA Measurement
PAR-47152	12L14 HEX. ESTIRADO 31,75 (1 1/4")	996	-0,076	915907	31,75
PAR-47472	12L14 RED. ESTIRADO 50,80 (2")	1.034	-0,076	916489	50,80
PAR-47851	12L14 RED. ESTIRADO 50,80 (2")	1.090	0,076	916489	50,80
PAR-47851	1018 RED. ESTIRADO 31,75 (1 1/4")	994	-0,051	139211	31,75
MJP-47856	12L14 RED. ESTIRADO 25,40 (1")	3.000	-0,051	139256	25,40
PAR-47786	1018 RED. ESTIRADO 30,16 (1 3/16")	1.090	0,051	139297	30,16
PAR-47786	12L14 RED. ESTIRADO 19,05 (3/4")	2.002	-0,051	202433	19,05
MJP-47861	12L14 HEX. ESTIRADO 31,75 (1 1/4")	994	0,076	915907	31,75
OU-47812	1018 RED. ESTIRADO 9,53 (3/8")	1.040	0,051	139333	9,53
SM-47572	1018 RED. ESTIRADO 9,53 (3/8")	1.040	-0,051	139477	9,53
SM-47572	1018 RED. ESTIRADO 31,75 (1 1/4")	1.988	-0,051	139481	31,75
AQM-47672	1018 RED. ESTIRADO 31,75 (1 1/4")	1.990	-0,051	139547	31,75
OU-47832	12L14 RED. ESTIRADO 19,05 (3/4")	1.998	-0,051	202313	19,05
OU-47832	1018 RED. ESTIRADO 15,88 (5/8")	2.004	-0,051	139624	15,88
OU-47832	1018 RED. ESTIRADO 31,75 (1 1/4")	996	-0,051	139627	31,75
MJP-47896	1018 RED. ESTIRADO 15,88 (5/8")	1.010	-0,051	139776	15,88

Composición química de la colada / Chemical Analysis of Heat

MEDIDA Measurement	OF	COLADA Cast Nr.	% C	% Cr	% Cu	% Mn	% Mo	% Ni	% P	% Ph	% S	% Si
31,75	0,00	915907	0,070	0,090	0,230	1,110	0,030	0,110	0,051	0,210	0,329	0,020
50,80	0,00	916489	0,060	0,000	0,000	1,120	0,000	0,000	0,043	0,220	0,318	0,010
50,80	0,00	916489	0,060	0,000	0,000	1,120	0,000	0,000	0,043	0,220	0,318	0,010
31,75	0,00	139211	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
25,40	0,00	139256	0,060	0,086	0,014	1,130	0,006	0,023	0,063	0,300	0,310	0,003
30,16	0,00	139297	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
19,05	0,00	202433	0,071	0,046	0,019	1,085	0,004	0,029	0,060	0,295	0,292	0,008
31,75	0,00	915907	0,070	0,090	0,230	1,110	0,030	0,110	0,051	0,210	0,329	0,020
9,53	0,00	139333	0,160	0,000	0,000	0,750	0,000	0,000	0,021	0,000	0,032	0,160
9,53	0,00	139477	0,160	0,000	0,000	0,750	0,000	0,000	0,021	0,000	0,032	0,160
31,75	0,00	139481	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
31,75	0,00	139547	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
19,05	0,00	202313	0,071	0,046	0,019	1,085	0,004	0,029	0,060	0,295	0,292	0,008
15,88	0,00	139624	0,160	0,000	0,000	0,650	0,000	0,000	0,021	0,000	0,023	0,142
31,75	0,00	139627	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
15,88	0,00	139776	0,160	0,000	0,000	0,650	0,000	0,000	0,021	0,000	0,023	0,142

Características mecánicas / Mechanical properties



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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR. 47704

ALBARAN 47704
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

MEDIDA		OF	COLADA	Resistencia	Lím.elástico	Alargamiento	Dureza HB	Estricción %
Measurement			Cast Nr.	Tens. strength	Yield point	Elongation	Hardness	
				N/mm2	0,2% N/mm2	Lo=50 mm.	HB	
31,75		915907	39680 W	533,38	523,05	12,04	169,00	45,79
50,80		916489	41232 IS	515,66	509,28	16,20	178,00	53,91
50,80		916489	41232 IS	515,66	509,28	16,20	178,00	53,91
31,75		139211	41410 AG	558,02	536,07	36,40	159,00	57,29
25,40		139256	41300 AG	556,11	543,10	19,46	159,00	46,32
30,16		139297	41411 AG	551,06	525,36	37,06	165,00	59,43
19,05		202433	41406 AA	584,38	568,82	16,86	172,00	47,83
31,75		915907	39680 W	533,38	523,05	12,04	169,00	45,79
9,53		139333	41460 GM	735,60	691,90	12,70	216,00	59,96
9,53		139477	41460 GM	735,60	691,90	12,70	216,00	59,96
31,75		139481	41410 AG	558,02	536,07	36,40	159,00	57,29
31,75		139547	41410 AG	558,02	536,07	36,40	159,00	57,29
19,05		202313	41406 AA	584,38	568,82	16,86	172,00	47,83
15,88		139624	41508 G	602,29	574,24	20,18	176,00	60,19
31,75		139627	41410 AG	558,02	536,07	36,40	159,00	57,29
15,88		139776	41508 G	602,29	574,24	20,18	176,00	60,19

Calidad Superficial

DESCRIPCIÓN Description	OF	Clase EN 10277-1
12L14 HEX. ESTIRADO 31,75 (1 1/4")	915907	1
12L14 RED. ESTIRADO 50,80 (2")	916489	2
12L14 RED. ESTIRADO 50,80 (2")	916489	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139211	3
12L14 RED. ESTIRADO 25,40 (1")	139256	3
1018 RED. ESTIRADO 30,16 (1 3/16")	139297	2
12L14 RED. ESTIRADO 19,05 (3/4")	202433	3
12L14 HEX. ESTIRADO 31,75 (1 1/4")	915907	1
1018 RED. ESTIRADO 9,53 (3/8")	139333	2
1018 RED. ESTIRADO 9,53 (3/8")	139477	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139481	3
1018 RED. ESTIRADO 31,75 (1 1/4")	139547	3
12L14 RED. ESTIRADO 19,05 (3/4")	202313	3
1018 RED. ESTIRADO 15,88 (5/8")	139624	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139627	3
1018 RED. ESTIRADO 15,88 (5/8")	139776	2



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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a / Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47704

ALBARAN 47704
Delivery Note Nr.

CLIENTE LES ACIERS TRANSPEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norma :

Bright steel products. Technical delivery conditions.

Observaciones: BARRAS DE ACERO ESTRIADAS EN FRÍO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.

QUALITY DEPARTMENT: Certify that the product fulfils the order specifications..

Fecha/Date: 08/06/2017

Firmado: Susana Fernández
Directora de Calidad



Sistema de
Gestión
SQ 0011:2008
Certificado
RD 1107/2002



ARANA Y LUPARDO, 2
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11.1.1042 #6

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48011

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 46977

ALBARAN 46977
Delivery Note Nr.

CLIENTE LES ACTERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A114

Nº PEDIDO Purchase Order	DESCRIPCIÓN Description	KGS.	TOLERANCIA TOLERANCE	OF	MEDIDA Measurement
OU-47007	1018 CUA. ESTIRADO 12,70 (1/2")	960	- 0,110	916205	12,70
OU-47007	1018 CUA. ESTIRADO 50,80 (2")	1.204	- 0,190	138237	50,80
MJP-47224	1018 RED. ESTIRADO 25,40 (1")	2.006	0,051	138229	25,40
PAR-47152	1018 CUA. ESTIRADO 50,80 (2")	2.400	0,190	138236	50,80
PAR-47472	1018 CUA. ESTIRADO 38,10 (1 1/2")	834	- 0,160	916334	38,10
PAR-47472	1018 CUA. ESTIRADO 12,70 (1/2")	980	- 0,110	916205	12,70
PAR-47472	1018 CUA. ESTIRADO 50,80 (2")	1.204	- 0,190	138491	50,80
PAJ-47284	1018 CUA. ESTIRADO 6,35 (1/4")	1.000	- 0,090	915673	6,35
PAJ-47284	1018 CUA. ESTIRADO 12,70 (1/2")	1.218	- 0,110	916205	12,70
PAJ-47284	1018 CUA. ESTIRADO 50,80 (2")	1.198	- 0,190	138520	50,80
PAR-47490	1018 RED. ESTIRADO 25,00	4.960	- 0,051	138774	25,00
OU-47436	1018 RED. ESTIRADO 12,70 (1/2")	1.086	- 0,051	138832	12,70
VI-47383	1018 CUA. ESTIRADO 6,35 (1/4")	992	- 0,090	915673	6,35
VI-47383	1018 CUA. ESTIRADO 25,40 (1")	633	- 0,130	916070	25,40
CA-46398	1018 CUA. ESTIRADO 50,80 (2")	1.196	- 0,190	139048	50,80
PAR-47756	1018 CUA. ESTIRADO 25,40 (1")	1.020	- 0,130	916070	25,40
MJP-47531	1018 CUA. ESTIRADO 6,35 (1/4")	992	- 0,090	916198	6,35

Composición química de la colada / Chemical Analysis of Heat

MEDIDA Measurement	OF	COLADA Cast Nr.	% C	% Mn	% P	% S	% Si
12,70 0,00	916205	41079 S	0,161	0,802	0,006	0,023	0,268
50,80 0,00	138237	41336 C	0,150	0,710	0,012	0,012	0,160
25,40 0,00	138229	41198 G	0,160	0,630	0,007	0,010	0,136
50,80 0,00	138236	41336 C	0,150	0,710	0,012	0,012	0,160
38,10 0,00	916334	40753 C	0,190	0,790	0,019	0,017	0,200
12,70 0,00	916205	41079 S	0,161	0,802	0,006	0,023	0,268
50,80 0,00	138491	41336 C	0,150	0,710	0,012	0,012	0,160
6,35 0,00	915673	40073 G	0,150	0,770	0,007	0,026	0,235
12,70 0,00	916205	41079 S	0,161	0,802	0,006	0,023	0,268
50,80 0,00	138520	41336 C	0,150	0,710	0,012	0,012	0,160
25,00 0,00	138774	41198 G	0,160	0,630	0,007	0,010	0,136
12,70 0,00	138832	41218 GM	0,160	0,720	0,013	0,012	0,170
6,35 0,00	915673	40073 C	0,150	0,770	0,007	0,026	0,235
25,40 0,00	916070	40439 SR	0,180	0,760	0,017	0,028	0,220
50,80 0,00	139048	41336 C	0,150	0,710	0,012	0,012	0,160
25,40 0,00	916070	40439 SR	0,180	0,760	0,017	0,028	0,220
6,35 0,00	916198	40073 C	0,150	0,770	0,007	0,026	0,235

Características mecánicas / Mechanical properties



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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 46977

ALBARAN 46977
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) I.TÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

MEDIDA Measurement	OF	COLADA Cast Nr.	Resistencia Tens. strength N/mm2	Lim.elástico Yield point 0.2% N/mm2	Alargamiento Elongation Lo-50 mm.	Dureza HB Hardness HB	Estricción %
12,70	916205	41079 S	600,76	559,59	15,12	190,00	0,00
50,80	138237	41336 C	515,00	330,00	34,00	0,00	0,00
25,40	138229	41198 G	566,93	548,05	26,50	172,00	54,84
50,80	138236	41336 C	515,00	330,00	34,00	0,00	0,00
38,10	916334	40753 C	500,00	330,00	32,00	0,00	0,00
12,70	916205	41079 S	600,76	559,59	15,12	190,00	0,00
50,80	138491	41336 C	515,00	330,00	34,00	0,00	0,00
6,35	915673	40073 G	822,40	791,50	7,94	258,00	47,07
12,70	916205	41079 S	600,76	559,59	15,12	190,00	0,00
50,80	138520	41336 C	515,00	330,00	34,00	0,00	0,00
25,00	138774	41198 G	621,60	600,60	14,14	185,00	52,83
12,70	138832	41218 GM	555,00	0,00	30,60	0,00	0,00
6,35	915673	40073 G	822,40	791,50	7,94	258,00	47,07
25,40	916070	40439 SR	511,00	358,00	33,30	0,00	0,00
50,80	139048	41336 C	515,00	330,00	34,00	0,00	0,00
25,40	916070	40439 SR	511,00	358,00	33,30	0,00	0,00
6,35	916198	40073 G	822,40	791,50	7,94	258,00	47,07

Calidad Superficial

DESCRIPCIÓN
Description

OF

Clase
EN 10277-1

Observaciones: BARRAS DE ACEROE STIRADAS EN FRIO SIN ALFAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.
QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Date: 24/04/2017

Firmado: Susana Fernández
Directora de Calidad



Sistema de
Gestión
ISO 9001:2004
www.tov.com
ID 118238924



CERTIFICATE OF CONFORMANCE

AMERICAN BAR PRODUCTS
3600 Michigan Ave, Unit 1
East Chicago, IN
46312
p (215) 957-0500 - f (215) 957-6345

PRODUCT DATA

TAG NO. 70918
PO #: b 97699
HEAT: W26482
GAUGE 0.25
WIDTH 1.500
LENGTH 146
WEIGHT 1,590
PART # / IAC#: v-731371
GRADE: C-1018 CF FLAT BAR

MILL DATA

HEAT: W26482
MILL COIL #: K7774831
MELT/ROLL MILL: US Steel
GRAIN SIZE PRACTICE: ALUMINUM KILLED
REDUCTION: 40 : 1
PO TO MILL: 42461
WORK ORDER #: 126974
SERIAL NO: 12357622
CUSTOMER PO#: 225889
Melt & Manufacture USA
OTHER PRODUCT DATA:

SHIPPING DATA

BILL/LADING #: 34348
B/L DATE: 11-Jan-17

Production data

OPERATOR ricky sanders
DATE 11-Jan-17
MACHINE LINE 3

CHEMISTRY

C	0.1900
Mn	0.7800
P	0.0060
S	0.0040
Cu	0.0100
Ni	0.0100
Cr	0.0400
Mo	0.0080
V	0.0010
Al	0.0340
Cb	na
N	0.0070
Si	0.0080

C-1018 COLD FINISHED FLAT BAR
MEETS PROPERTIES OF ASTM A29
MEETS PROPERTIES OF ASTM A108-13

GRAIN: ASTM E112, FINE GRAIN: 8/9, 128 GRAIN/IN² AT 100X MAGNIFICATION
REDUCTION RATIO 20/1 MIN. STRAND CASTING, NO WELDING OR WELD REPAIR

WE HEREBY CERTIFY THE ABOVE FIGURES ARE ACCURATELY STATED
THE ABOVE FIGURES ARE TRACEABLE IN OUR RECORDS BACK TO THE PRODUCER AND/OR
TO AN ACCREDITED TEST LABORATORY, ALL PHYSICALS MINIMUM

WE HEREBY CERTIFY THAT THIS PRODUCT DOES NOT CONTAIN LEAD, MERCURY, CADMIUM,
HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS (PBD), POLYBROMINATED DIPHENYL ETHERS (PBDE)

HEAT ANALYSIS IS FROM THE PACKING LIST RECEIVED FROM OUR RAW MATERIAL SU

DFARS COMPLIANT

PRODUCED IN USA

QUALITY CONTROL



GEORAU SPECIAL STEEL NORTH AMERICA
3591 MERRILL ROAD
JACKSON, MICHIGAN 49201

8#05

CERTIFIED MATERIAL TEST REPORT

CERTIFIED MATERIAL TEST REPORT			
CUSTOMER ORDER NUMBER	CUSTOMER PART NUMBER	CAST NUMBER	TEST ORDER NUMBER
142324	1012462/4140EFVD	M52573 ✓	283416 101
			DATE
			11/05/13
Daniel Cast			

ORDERED

4140		0 3/4"		20' 2"						
ITEM 1012462 REV 1 DTD 03/05/12; A29/A29M-12; A322-07										
CHEMICAL ANALYSIS										
C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Sn	Al
0.40	0.65	0.010	0.024	0.25	0.12	0.96	0.18	0.17	0.008	0.030
V	Nb									
0.002	0.002									
GRAIN SIZE		SPECIFICATION ASTM E112				FINE GRAIN 5-8				
HARDENABILITY		SPECIFICATION ASTM A255/A304								
THEORETICAL										
J1 2 3 4	5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32 34									
56 56 56 56 56 56 54 53 52 50	48 46 44 43 42 40 38 36									
DI CALCULATION		SPECIFICATION CAT 1E0024								
5.07										
REDUCTION RATIO		SPECIFICATION ITEM 1012462								
RATIO= 81.5 TO 1.0										
PAGE 1										
We certify that these data are correct and in compliance with specified requirements.										
Gerdau Monroe 3000 East Front Street Monroe, MI 48161										
Wendy J. Craig Wendy J. Craig										

CONTINUED ON PAGE 2



GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT

CUSTOMER ORDER NUMBER	CUSTOMER PART NUMBER	ORDER ORDER NUMBER	DATE
142324	1012462/4140EVD	M52573 283416 101	11/05/13

Daniel Cast

ORDERED

ITEM	SIZE	END	LENGTH
4140	0 3/4"	RND	20' 2"

ITEM 1012462 REV 1 DTD 03/05/12; A29/A29M-12; A322-07

RESIDUAL MAX SPECIFICATION ITEM 1012462

P+S = 0.0340

RESIDUAL MIN SPECIFICATION ITEM 1012462

P+S = 0.0340

ASTM E381 MACRO ETCH SATISFACTORY: S1/R1/C1; MEETS SAE J422

S5/05 RATING (WORST FIELD):
** MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC
ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT
BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED
TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT
TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION. TO ENSURE THAT
GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT
PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.

PAGE 2 OF 2

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Wing Co. Wendy J. Craig

Quality Assurance Department

Steel Bar Company Inspection-Certificate 1626286

EN 10204:2004-3.1

Customer	BOL	Ship Date	Customer PO	Item	Customer Item	Item Description
	207240	06-Mar-2017	B8206	11144 rev 063	V016242	3/4 HR RD 4140/42MM 20x2in S80 QTSE FG MST

All bundles listed below were produced using steel from Heat M52573 issued by GERDAU-MONROE and were completed from Eaton Steel Job 806532.

Chemistry	Description	Value	Units	Heat Treating	Description	Value	Units
C	Carbon	0.40000	PMGT	TEMPER TEMP P	Temper Temp in Fahrenheit	500 - 2500	DEGF
Mn	Manganese	0.95000	PMGT	AUTTEMP TEMP P	Austenitizing Temp in Fahrenheit	1600 - 1700	DEGF
P	Phosphorus	0.01000	PMGT	SR TEMP P	Stress Relief Temp in Fahrenheit	500 - 2500	DEGF
S	Sulfur	0.02400	PMGT	MAGNETISM-RT	Magnetism in Gauss	0 - 20	GN
Si	Silicon	0.25000	PMGT	TIME AT TEMP	Time at Temperature	Report	
Ni	Nickel	0.12000	PMGT	QUENCH MEDIA	Quench Media Requirements	P4M/O	
Cr	Chromium	0.96000	PMGT	STRESS FREE	Cert stress free	CERTIFIED	
Mo	Molybdenum	0.18000	PMGT	HT4140-420T	Quench & Temper	CONFORMS	
Al	Aluminum	0.03000	PMGT	Full Processing	Description	Value	Units
Cu	Copper	0.17000	PMGT	MELT COUNTRY	Melted in Country	USA	
V	Vanadium	0.00200	PMGT	ROLLED COUNTRY	Rolled in Country	USA	
Co	Columbium	0.00200	PMGT	RED RATIO	Reduction Ratio	81.50	RED
N	Nitrogen	0.00000	PMGT	ASTM Standard	Description	Value	Units
P-S	Element Sum Limit	0.03400	PMGT	A193/193M-01	Grade #7	CONFORMS	
DI	Ideal Diameter	5.07000	IN	A134-90a-BC	ASTMA BC Tensile and Yield Properties	CONFORMS	
Cleanliness	Description	Value	Units	Structure	Description	Value	Units
MACRO ETCH	Report macro etch results			PERCENT TM	Percent Tempered Martensite	80 - 100	PCT
Grain Size	Description	0.7420 - 0.7560	IN	MICROSTRUCTURE	Reported Microstructure	TM	
DIAMETER	Diameter			Tag Number		Length	
Quantity	Description		Units	022-1921471		3305 LBS	

ASTM A304

Test Results	Description	Value	Units
TENSILE PSI	Tensile Strength in PSI Units		PSI
YIELD PSI	Yield Strength in PSI Units		PSI
ELONGATION	Percent Elongation		PCT
REDUCTION	Percent Reduction in Area		PCT
BRINELL SURF	Brinell Surface	266.0	BRN

Bundle tags with Eaton Steel identifiers reference the steel grade, heat, purchase order number, part number, product description and weight. Tested and certified in accordance with Eaton Steel's Quality Manual QM-00001 / Rev 3 / 2/26/13.

We hereby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Steel.

Created with: JUNE 2017
 Thomas Bar Company, Inc. 1000
 1000 Thomas Bar Company, Inc. 1000

4936

48603

R4140-2H-20

TRA 156

#9

CERTIFICATE OF TEST
CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date
9-DEC-2016CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENTInvoice Number
S687318AC00001567
PART NUMBER/NUMÉRO DE PIÈCE

SOLD TO: ACIER OUELLETTE INC

SHIP TO:

ACIER OUELLETTE INC.

VENDU À:

EXPÉDIÉ À:

22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B622 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
2 RD X 20' R/L Line Total: 470 LB
HEAT: M56776 ITEM: 506433

Specifications:

ASTM A193 GR B7 14

ASTM A434 GR BC 06

ASME SA193 GR B7

ASTM A 322 13

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.42	0.89	0.011	0.033	0.26	0.15	0.90	0.18
CU	SN	AL	V	NB	N		
0.24	0.008	0.024	0.003	0.003	1.40		

RCPT: R966216

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	132.0	144.0	23.0	57.0	279

IDEAL DIAMETER : 5.34 IN GRAIN SIZE : 5 - 8

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession/Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
9-DEC-2016

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
S687318

AC00001567
PART NUMBER/NUMÉRO DE PIÈCE

SOLD TO:	ACIER OUELLETTE INC	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	22 BOULEVARD J-F KENNEDY	EXPÉDIÉ À:	22 BOULEVARD J F KENNEDY
	ST JEROME QC J7Y 4B6		SAINT JEROME QC J7Y 4

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
2 RD X 20' R/L Line Total: 470 LB
HEAT: M56776 ITEM: 506433

VACUUM DEGASSED MATERIAL IS FREE FROM MERCURY CONTAMINATION
THERMAL TREATMENT: OK
TREATMENT TEMP F TIME(MIN MEDIA
AUST 1625 2.10
QUENCH 0 WATER
TEMPER 1400 2.1
QUENCHED @ 100 DEG F FOR 2.5 MIN
MACRO: OK
MICRO: OK

COMMENTS
red ratio 11.5 to 1.0
melted and mfg in the USA

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

10

FAL 381

MILL TEST

SHIP TO		ACIER OUELLETTE		SO DESCRIPTION		1" X 3/8" FLAT BAR	
CERT CODE: 1		DIE NUMBER S 2222		DATE OF SHIPMENT Nov/03/2016		ORDER NO. 198958 - 1	
CUSTOMER PO 101434		ALLOY 6061		TEMPER T6		SALESMAN HOUSE ACCOUNTS	
CUSTOMER PART NUMBER DT02222		PART DESCRIPTION 1" X 3/8" FLAT BAR		MADE IN CANADA		MANIFEST NO. 359787	
				CERTIFICATION		MILL TEST ASTM B221-14	

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell E	Conductivity
A.11	6061	Oct/27/2016	43.50	39.30	18.40	88.2, 88.5, 87.9	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
384191	✓	A.11	6061	0.6	0.18	0.2	0.03	0.86	0.07	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.



David Natale
Quality Control Manager

FAL 12112 C. J. H. #11

Test de dureté Rockwell Rockwell Hardness Test

46185

Client / Customer : LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address : 4054 BOUL. LE CORBUSIER # 201
LAVAL, QC
H7L5R2

commande Sapa / Sapo order # : 6050261

bon de commande / Purchase order # : OU-46056

de matrice / Die # : MS 9442 Description : 1 1/2"x 1/2" FLAT BAR

Alliage & trempage / Alloy & temper : 6061 T6 Longueur / Length : 6097 mm

Contrôle / Control # : 68674-2

Coulée / Cast # : 66789 ✓

Dureté Rockwell E / Min. requis / Max. permis /
Rockwell E hardness : 95 HRE Min. required : 88 HRE Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.9	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	---	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de specimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre, date : 2016-08-01
Yours truly,



Gilles Pothier
Technicien de la qualité
Quality technician



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
925726	4

MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT	CERTIFICATION
338176	MRB0479	7/20/2017	ASTM-B221-14 StencilCont
CUSTOMER PO	ALLOY/TEMPER	SALESPERSON	SPECIFICATION
C74707	6061-T6511	D. Schroeder (Canada)	AMS-QQA-200/8 Rev-A
CUSTOMER PART NUMBER	DESCRIPTION		
MRB0479	MQRB 1.000x5.000		

Quantity Certified 1,140 lbs 16 pcs

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

This product is RoHS-2, REACH, and DFARS compliant.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
			min max	min max	min max
3	201708529	5/27/17	50.10 50.90	45.20 46.50	15.60 17.00

R391404 R391406

SCM products are melted and extruded in the USA

Print Date: 7/20/2017

Calvin J. Wiggins

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 9/2/16



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
925726	4

MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT	CERTIFICATION
338176	MRB0479	7/20/2017	ASTM-B221-14 StencilCont
CUSTOMER PO	ALLOY/TEMPER	SALESPERSON	SPECIFICATION
C74707	6061-T6511	D.Schroeder (Canada)	AMS-QQA-200/8 Rev-A
CUSTOMER PART NUMBER	DESCRIPTION		
MRB0479	MQRB 1.000x5.000		

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This product is RoHS-2, REACH, and DFARS compliant.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others		Melt Source:
												Each	Total	
001J170406Y	201708529	6061	0.76	0.40	0.33	0.10	0.92	0.09	0.05	0.04	97.32	0.05	0.15	United States of America
001J170524A	201708529	6061	0.74	0.37	0.33	0.11	0.87	0.11	0.06	0.03	97.38	0.05	0.15	United States of America
05141704	201708529	6061	0.74	0.40	0.33	0.10	0.92	0.08	0.07	0.02	97.34	0.05	0.15	United States of America
05171701	201708529	6061	0.76	0.36	0.30	0.11	0.86	0.09	0.07	0.03	97.42	0.05	0.15	United States of America

SCM is ISO 9001-2015 certified

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 7/20/2017

Rev 9/0/16

#2457

4A1-1143-12

ACIER OUELLETTE INC P.O. - AC7730 S.O. - 394920

48392

#13

Material Test ReportManifest: 704227Ticket:

1658808

Our Order: 876180-1

Cust P.O.: 787365

Die: ES04036

Part: 5131-8954

Alloy Temper: 6061 T6511

Description: 1.250 x 3.000 RECT. BAR

Print Date: 12/12/16

Chemical Composition

<u>CastNum</u>	<u>Si</u>	<u>Fe</u>	<u>Cu</u>	<u>Mn</u>	<u>Mg</u>	<u>Cr</u>	<u>Zn</u>	<u>Ti</u>	Maximum	
									<u>Other Each</u>	<u>Other Total</u>
34827	0.57	0.24	0.19	0.08	0.85	0.07	0.02	0.01	0.05	0.15

Mechanical Properties

Strength ksi

<u>Sample ID</u>	<u>Cast #</u>	<u>Lot #</u>	<u>Test Date</u>	<u>Ultimate Tensile</u>	<u>Yield 2% offset</u>	<u>Elongation 2" gage length</u>
66813	34827	A11	12/6/16	48.37	44.45	17.5

Applicable Specifications: ASTM B221-14 AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Eric Hotte - Tensile Testing

Authorized:


Evan Eng, Quality Assurance Manager

#14

LES ACIERS OUELLETTE INC.
BARRE RONDE ALUMINIUM 6061-T6511
5.00" DIA X 141.0000"
PART NO.

PO#61 OU-77876

Nous certifions que le document reproduit ici est
une copie conforme du rapport fourni par le
fournisseur du matériel ou les données résultant

Certificate of Mill Test Results

REF. VIM-175153-001

9 May 16

Pg 1/1

de l'analyse faite par un laboratoire qualifié.
SIGNÉ PAR: LUCY TRUGLIO

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: VIM-635658-3		CUSTOMER PART NUMBER: R37/STK		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD 5.000 +/-0.017	
KAISER ORDER NUMBER: 6007370	LINE ITEM: 003	SHIP DATE: 04/19/2016		KAISER LOT NUMBER: Z00020290	ALLOY: 6061
WEIGHT SHIPPED: 1108.000 LB	QUANTITY: 4.000 PCS	BL NUMBER: 615429		DIAM/DAFT/THICKNS: 5.000	TEMPER: T6511B
SHIP TO: THYSSENKRUPP CANADA 4700 BOIS FRANC ST LAURENT, PQ H4S 1A7 CANADA			SOLD TO: THYSSENKRUPP CANADA 4700 BOIS FRANC ST LAURENT, PQ H4S 1A7 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
ZC0020290	0001	C001	51.8	47.6	15.6	RE 94	N/A	N/A
ZC0020290	0001	C002	51.3	47.2	16.0	RE 91	N/A	N/A
ZC0020290	0002	0001	56.2	54.7	15.0	RE 94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
10E110	.72	.29	.26	.11	.93	.10	.19	.02	.00	.00	.00	.01	.04

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-CQ-A-200/8A UNS# A95961
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been
inspected and tested and found in conformance with applicable specifications forming a part of the
description set forth in Kaiser's sales acknowledgment form. Any warranty is limited to that shown on
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00227385
Kaiser Order Number: 6007370
Line Item: 003

47345

#15
TR+ 904
5144

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL. LE CORBUSIER # 201
LAVAL QC
H7L5R2**

commande Sapa / Sapa order # : **7010442**

bon de commande / Purchase order # : **OU-47042**

de matrice / Die # : **MS 16001**

Description : **2.25" DIA. ROD**

Alliage & trempage / Alloy & temper : **6061 T6**

Longueur / Length : **6097 mm**

Contrôle / Control # : **83103-1**

Coulée / Cast # : **68252** ✓

Dureté Rockwell E /
Rockwell E hardness : **96 HRE**

Min. requis /
Min. required : **88 HRE**

Max. permis /
Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	—	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,

date : **2017-02-08**



Gilles Pelletier
Technicien de la qualité
Quality technician

100110200
 ACTEROU FLETTIE DIV-VALLEYFIELD
 BARRIE ROND ACERONVA 400
 150 DIA X 1/2
 PART NO.

DACT
 PO Ref A00009030

RV 4050
 Certificate of Mill Test Results
 75 Sep 17
 Pg 1.3



North American Stainless Canada Inc.
 740 Imperial Road North
 Guelph, ON N1K1Z3
 Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
 Ghent, KY 41045-9615
 (502) 347-6000

Certificate: 300262 3
 Customer: 007205 001

Date: 6/06/2017 Page: 1
 Steel: 303
 Finish: ST
 Corrosion:
 Red Ratio: 32.0 :1

Your Order: VIM641730

NAS Order: IN 0248251 02

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished
 UNS 30300, ASTM A582/12 EN 10204 3.1, ASTM A484/15
 AMS 5640V TYPE 1, QQS-764B CONDITION A
 SOLUTION ANNEAL TEMP 1900P MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAF 252.225-7009 EU DIRECTIVE
 2011/65/EU. ROHS. ZAP-A00-CC. NO WELD REPAIR. MELTED AND MFG
 IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BI6169 7		1.5000		1.330	144.00	2	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
 Chemical Analysis per ASTM A751/14a

NAS Heat	CM	C %	CO %	CR %	CU %	FE %	MO %	N %	NI %	P %
3338	02	-0.029	-1.085	17.0530	.3225	1.8665	.3105	.0466	8.5265	.0275
		B %	SI %							
		.3145	.4000							

MECHANICAL PROPERTIES

Product Id	1 4 0 1 c r	HB	.2YS	YSI	UTS	KSI	RA	%	Elong	% AD
BI6169 7	R 1	152.0	44.00	87.00	58.00	46.00				

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
 Dept. Mgr.

[Signature]



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Conflicto: 300262 4

CUSTOMER: 007205 001

FROM ORDER: VIM641730

Order: IN 0248251 02

Date: 6/06/2017 Page: 1

55001: 303

Pinch: 3T

Correspondence:

Red Ratio: 32.0 : 1

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished
UNS 30300, ASTM A582/12 EN 10204 3.1, ASTM A484/15
UNS 5640V TYPE 1, QCS-7642 CONDITION A
SOLUTION ANEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DEAR 252.235-7009 EU DIRECTIVE 2001/65/EU,ROHS. EPA+AOD+CC. NO WELD REPAIR. WELDED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BI6179 7			1.5000	880	124.00	4	1	

CHEMICAL ANALYSIS

NDS Heat	CM	C %	CO %	CR %	CU %	MV %	KD %	N %	NI %	P %
3338	US	.0329	.1085	17.0530	.3225	1.8665	.3105	.0466	8.5265	.0273
	S	%	SI %							
		.3145	.4000							

MECHANICAL PROPERTIES

Product Id	J d o i c r	NB No.	.2YS XSI	UTS XSI	RA %	Eing % 4D
BIG178 7	X L	152.0	44.00	87.00	58.00	46.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Corrlicaro: 300262 5

Date: 6/06/2017 Page: 1

Customer: 007205 001

303

ST: 40771

Corroborate:

Red Ratio: 32.0 : 1

NAS Order: IN 0248251 02

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished
UNS 30300, ASTM A582/12 EY 10204 3.1, ASTM A484/15
AMS 5640V TYPE 1, QQS-7648 CONDITION A
SOLUTION ANEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 257.225-7009 EU DIRECTIVE 2011/65/EU, RoHS. EAF-AOD-CC. NO WELD REPAIR. WELDED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BIG178 8		1.5000		881			144.00	J 1

CHEMICAL ANALYSIS

CM	C %	CO %	CR %	CU %	HN %	MO %	N %	NI %	P %
US	.0339	.1085	17.0530	.3225	1.8665	.3105	.0466	9.5265	.0275
S %		SI %							
	.3145	.4000							

MECHANICAL PROPERTIES

Product Id	1 d o l c f	HB NO.	.2YS KSI	UTS KSI	RA %	Elong % 4D
D16178 8	R L	152.0	64.00	87.00	58.00	46.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

6/06/2017

CO.49626

PO 9031 JV

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 01

 Certification Date
9-MAR-2007

 CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

 Invoice Number
T232578

 ROSS
PART NUMBER/NUMÉRO DE PIÈCE

 Description: 1018 CF BAR ASTM A108
2-1/2 X 6 FLATS 6'0" (72.0") REMNANT
HEAT: 207H175 ITEM: 503180

Line Total: 306 LB

 Specifications:
ASTM A108 03 ASTM A29 04

CHEMICAL ANALYSIS

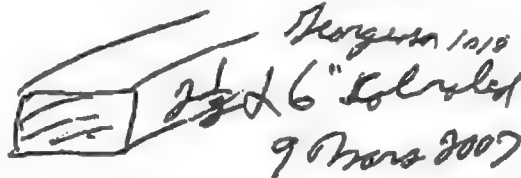
C	MN	P	S	SI	NI	CR	MO
0.16	0.67	0.01	0.02	0.24	0.08	0.07	0.017
CU	AL	V					
0.23	0.045	0.001					

 RCPT: R692775
MILL: NIAGARA LASALLE CORPORATION COUNTRY OF ORIGIN: USA

GRAIN SIZE :5 - 8

 STRAND CAST MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

 COMMENTS
GRAIN FINE (5 8)
SOURCE/METLED ISG STEELTON (USA)
CAST BLOOM
RED. RATIO 22.5:1

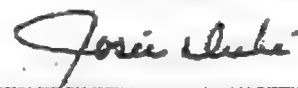


The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrits du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOSEE DUBE


MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

2 1/2 X 6"

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M3045189A
DATE: SEP 18 2017

PO / BATCH NO.: PO37671/4138486

MATERIAL CERT REC'D: yes
QUANTITY RECEIVED: 6458ft
QUANTITY INSPECTED: 6458ft
QUANTITY REJECTED: 0

THICKNESS ORDERED: .050
THICKNESS RECEIVED: .050
SHEET SIZE ORDERED: 4x8
SHEET SIZE RECEIVED: 4x8

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM A240
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT # 0642
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>5</u>	SIGNED OFF BY: _____		
DATE: <u>SEP 18 2017</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240

DAS
5
9-89

FINISH:

FINISH
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 3
POLISHED No. 4
POLISHED No. 6
BUFFED No. 7
BUFFED No. 8

DART M-NUMBER
IDENTIFIER
1P
2D
3P
4P
6P
7P
8P

PART NUMBER:

M304S TT GA #P
GA

WHERE "TT" = GAUGE THICKNESS
WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.09375	0.084 - 0.098
12	0.108375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325

RELEASED

2015 FEB 04

ECN 15-322

REV.	DESCRIPTION	DATE
D	ADDED GAUGES 0-7.	AJS 15.01.06
C	DEFINED FINISH OPTION (ZN CB) AND EXAMPLE OF MATERIAL PIN WITH FINISH OTHER THAN 2B (ZN B5).	MB 12.09.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (CB-1), REF PAR 09-020A	CP 09.06.01
A	NEW ISSUE	DS 01.09.24
DESIGN	DS	BY DATE
DRAWN	AJS	
CHECKED		
MFG. APPR.		
APPROVED		
DE APPR.		
DATE	15.01.06	
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWING NO. M304S		
TITLE 304/316 SS SHEET		
REV. D SHEET 1 OF 1		
SCALE NTS		
COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSES FOR WHICH IT WAS DESIGNED. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS.		



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 1 of 8

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAIL
SEP 05 2017

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M303R1.500	M303R1.500	9/11/2017 Yes 9/11/2017		12.00 f	\$19.55	\$234.60
MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582							
NOTE: AISI 304/316 NOT ACCEPTABLE							
Line Total:							\$234.60
2	M303R0.750	303 Round Bar 0.750	9/11/2017 Yes 9/11/2017		12.00 f	\$4.43	\$53.16
MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582							
NOTE: AISI 304/316 NOT ACCEPTABLE							
Line Total:							\$53.16

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017
PO Print Date 9/5/2017

Page Number 2 of 8

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

Yours ppd

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

Terms

Currency

FOB

10127-2607

Net 30

CAD

FCA - (Free Carrier)

3 M304R0.375 304 ROUND BAR 0.375 9/11/2017
Yes
9/11/2017

MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276

(NOTE: AISI 303 NOT ACCEPTABLE)

12.00 \$1.03 \$12.41

12.3
SPT-9-11.

4 M304S18GA 304/316 .050 Sheet 9/11/2017
Yes
9/11/2017

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

Line Total: \$12.41

64.00
sf
B/O

\$5.36 \$342.72

SPT-9-12.

Line Total: \$342.72

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 3 of 8

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

Terms

Currency

FOB

10127-2607

Net 30

CAD

FCA - (Free Carrier)

5	M304S20GA	304/316 .040 Sheet	9/11/2017 Yes 9/11/2017	64.00 sf	\$3.91	\$250.14
---	-----------	--------------------	-------------------------------	-------------	--------	----------

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

2x.
SP 17-9-11

Line Total: \$250.14

6	M1018R0.625	M1018R0.625	9/11/2017 Yes 9/11/2017	20.00 f	\$1.04	\$20.79
---	-------------	-------------	-------------------------------	------------	--------	---------

MATERIAL: AISI 1018-1025 ROUND BAR AS PER
MIL-S-7097 OR ASTM A108

18.9.

Line Total: \$20.79

7	M1018R0.500	1018-1025 round bar .500	9/11/2017 Yes 9/11/2017	20.00 f	\$0.67	\$13.35
---	-------------	--------------------------	-------------------------------	------------	--------	---------

MATERIAL: AISI 1018-1025 ROUND BAR AS PER
MIL-S-7097 OR ASTM A108

18.9

SP 17-9-11

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 4 of 8

Order From :

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

VC-CAM002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

FCA - (Free Carrier)

				Line Total:	\$13.35
8	M1018B0.250x1.500	1010-1025 Steel Bar .250 x 1.500	9/11/2017 Yes 9/11/2017	12.00	\$1.86
					\$22.33
				Line Total:	
					\$22.33
9	M1018B2.500X6.000	1010-1025 Steel Bar 2.500 x 6.000	9/11/2017 Yes 9/11/2017	3.00	\$165.32
					\$495.95
				Line Total:	
					\$495.95
10	M4140HR0.750	4140 round bar .750	9/11/2017 Yes 9/11/2017	3.00	\$4.67
					\$14.01
				Line Total:	
					\$14.01

MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR CSA G40-21, 38W/44W/50W/60W/70W

MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR CSA G40-21, 38W/44W/50W/60W/70W

SAW CUT CHARGES INCLUDED IN PRICE
MATERIAL: AISI 4140 H ROUND BAR PER
AISI 4140 OR ASTM A304-02/-A-434-BC/-A193-03 GRADE-B7/-A29-03/-A332-91 OR UNS # G41400

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 5 of 8

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

800 667 4248

Ship To Contact

Ship To Phone

Ship Via:

Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

FCA - (Free Carrier)

Line Total: \$14.01

11 M4140HR2.00 ✓

M4140HR2.00 ✓

9/11/2017 FN

Yes

9/11/2017

3.00 ✓

f

\$19.50

\$58.49

SAW CUT CHARGES INCLUDED IN PRICE

MATERIAL: AISI 4140 H ROUND BAR PER

AISI 4140 OR ASTM A304-02/-A-434-BC/-A193-03 GRADE-B7/-A29-03/-A332-91 OR UNS # G41400

Line Total: \$58.49

12 M6061T6B0.375X01.000

6061T6 BAR .375 x 1.00 ✓

9/11/2017

Yes

9/11/2017

20.00 ✓

f

\$1.20

\$23.94

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR

AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116

OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR

ASTM B221

SEP-9-11

Line Total: \$23.94

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 6 of 8

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

13	M6061T6B0.500X1.500	6061T6 BAR 0.500 X 1.500	9/11/2017	20.00	\$2.39	\$47.87
			Yes	f		
			9/11/2017			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$47.87

14	M6061T6B1.000X5.000	6061T6 BAR 1.000 X 5.000	9/11/2017	12.00	\$17.97	\$215.66
			Yes	f		
			9/11/2017			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$215.66

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 7 of 8

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

Chantal Lavoie

15	M6061T6B1.250X3.000	6061T6 BAR 1.250 X 3.000 ✓	9/11/2017	12.00 ✓	\$13.48	\$161.76
		Yes		f		
		9/11/2017				

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$161.76

16	M6061T6R5.000 ✓	6061-T6 Round Bar 5.000" ✓	9/11/2017	3.00 ✓	\$71.06	\$213.18
		Yes		f		
		9/11/2017				

SAW CUT CHARGES INCLUDED IN PRICE
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$213.18

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37671**

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 8 of 8

Order From :

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

VC-CAM002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

17	M6061T6R2.250	6061-T6 Round Bar 2.250"	9/11/2017	2.00	\$14.36	\$28.72
			Yes	f		
			9/11/2017			

SAW CUT CHARGES INCLUDED IN PRICE

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$28.72

18	71401-45	PROCUREMENT QUALITY CLAUSESQ	9/11/2017	1.00	\$0.00	\$0.00
			No			
			9/11/2017			

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

Line Total: \$0.00

PO Total: \$2,209.08

PO Instructions: QUOTATION SOU0055250

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 9/5/2017

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0055250

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

P10: 37671

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2017/08/30

Revision N°

0

Prices valid until

2017/09/06

Your Order N°**Processed by**

BERNARD

Salesman

FRED

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

2

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
COUPE A LA SCIE SCIE 1 1 X 3'		1.00	UN	1.00		5.00			5.00
ROUND 4140 HEAT TREAT 2 RANDOM R4140-2H-V 4937	32.04	3.00	PI_\$CLB	3.00	PI	17.83			53.49
COUPE A LA SCIE SCIE 1 1 X 3'		1.00	UN	1.00		5.00			5.00
FLAT ALU 3/8 X 1 6061-T6 (20) FAL-381-20 2610 1 X 20'	9.00	20.00	PI_\$CLB	1.00	UN	23.94			23.94
FLAT ALU 1/2 X 1 1/2 6061-T6 (20) FAL-12112-20 2465 1 X 20' ✓	18.00	20.00	PI_\$CLB	1.00	UN	47.87			47.87
FLAT ALU 1/2 X 3 6061-T6 (20) FAL-123-20 2485 1 X 20' 2.75 not a 2.5	36.20	20.00	PI_\$CLB	1.00	UN	96.27			96.27
FLAT ALU 1 X 5 6061-T6 (12) FAL-15-12 2533 1 X 12' 2-3 DAYS	70.49	12.00	PI_\$CLB	1.00	UN	215.66			215.66
FLAT ALU 1 1/4 X 3 6061-T6 (12) FAL-1143-12 2457 1 X 12'	52.87	12.00	PI_\$CLB	1.00	UN	161.76			161.76
FLAT ALU 2 X 3 6061-T6 (12) FAL-23-12 2559 1 X 12'	84.67	12.00	PI_\$CLB	1.00	UN	242.12			242.12
ROUND ALU 5 6061-T6 (12) RAL-5-12 5164	69.12	3.00	PI_\$CLB	0.25	UN	812.72			203.18

préavis en fonction de l'évolution des prix de l'acier sur le marché.
Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date :

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0055250

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CLI0001056
Date 2017/08/30
Revision N° 0
Prices valid until 2017/09/06
Your Order N°
Processed by BERNARD
Salesman FRED
Carrier OUELLE SDV
Credit Terms Net 30 Days
Page 1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
SS303 ROUND BAR 1 1/2" N 1 X 12' R/L 2-3 DAYS	0.00	12.00	PI	12.00	UN	19.55			234.60
ROUND SS 3/4 303 RANDOM RSS-34303-V 5761 1 X 12' R/L	18.02	12.00	PI_\$CLB	12.00	PI	4.43			53.16
ROUND SS 3/8 304 (12R) RSS-38-12 5763 1 X 12' R/L	4.51	12.00	PI_\$CLB	12.00	PI	1.03			12.41
SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B 3425 2 X 4' X 8'	134.40	64.00	PI2_\$CLB	2.00	UN	171.36			342.72
SHEET SS 20G SS304-2B (4 X 8) FESS-20G483042B 3430 2 X 4' X 8'	100.48	64.00	PI2_\$CLB	2.00	UN	125.07			250.14
ROUND CR 5/8 1018 (20R) RCR-58-20 5350 1 x 20' r/l	20.80	20.00	PI_\$CLB	20.00	PI	1.04			20.79
ROUND CR 1/2 1018 (20R) RCR-12-20 5266 1 x 20' r/l	13.36	20.00	PI_\$CLB	20.00	PI	0.67			13.35
FLAT CR 1/4 X 1 1/2 1018 (12R) FCR-14112-12 2731 1 x 12' r/l	15.30	12.00	PI_\$CLB	12.00	PI	1.86			22.33
FLAT CR 2 1/2" X 6" N 1 X 3' 2-3 DAYS	0.00	1.00	UN	1.00	UN	495.95			495.95
ROUND 4140 HEAT TREAT 3/4 (20R) R4140-34H-20 4948	4.51	3.00	PI_\$CLB	3.00	PI	3.00			9.01

préavis en fonction de l'évolution des prix de l'acier sur le marché.
Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date :

Next Page...



ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0055250

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N  CLI0001056
Date 2017/08/30
Revision N  0
Prices valid until 2017/09/06
Your Order N 
Processed by BERNARD
Salesman FRED
Carrier OUELLE SDV
Credit Terms Net 30 Days
Page 3

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
COUPE A LA SCIE SCIE 1 1 X 3'		1.00	UN	1.00		10.00			10.00
ROUND ALU 4 6061-T6 (20) RAL-4-20 5162 COUPE A LA SCIE SCIE 1 1 X 3'	44.29	3.00	PI_\$CLB	0.15	UN	856.13			128.42
		1.00	UN	1.00		10.00			10.00
ROUND ALU 2 1/4 6061-T6 RANDOM RAL-214-V 5145 COUPE A LA SCIE SCIE 1 1 X 2'	9.34	2.00	PI_\$CLB	2.00	PI	11.86			23.72
		1.00	UN	1.00		5.00			5.00
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$						3.95

Total Weight (Lbs) 737.40

Important

This offer is based on availability and current pricing conditions that may be revised upon
pr vision of the order de l' volution des prix de l'acier sur le march .
This offer is subject to conditions of credit approval.
Approved and Accepted by : _____ Date : _____

Sub-total 2 689.84

TVH-13 - 349.68

Total (\$CAD) 3 039.52